

LINEAL FEET OF WALL _____

STEEL SCHEDULE (GRADE 40)

MARK	SIZE	TYPE	R	S	LENGTH	TOTAL LENGTH
A	#4	STR	---	---	7'-0"	
B	#5	2	4'-0"	1'-0"	5'-0"	
C	#5	STR	---	---	6'-2"	
D	#5	STR	---	---		
E	#4	STR	---	---		
N	#4	2	2'-0"	2'-0"	4'-0"	

BACKFILL DETAILS
SEE SHEET _____

CONDITIONS OF USE

BACKFILL: 5 TO 8 FEET
LESS THAN 50% FINES ONLY
MACHINERY SURCHARGE LOADING CONDITIONS ALLOWED:
(SEE PA-DESIGN GUIDE 4)
• STRUCTURAL SLAB OR PUSH-OFF
ON WALL (A)

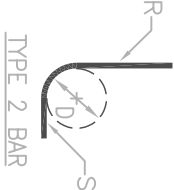
DESIGN VALUES

EARTH BACKFILL: 60 PSF/FT, EQUIVALENT FLUID PRESSURE
110 PCF (SOIL WEIGHT) AND <50% FINES
MANURE: 65 PSF/FT, EQUIVALENT FLUID PRESSURE
MACHINERY LOADING: 0 PSF EQUIV. FLUID PRESSURE
• ULTIMATE STRENGTH DESIGN (ACI 318-99)
CONCRETE STRENGTH: 4,000 PSI REBAR: GRADE 40
• COEFF. FRICTION (SOIL/CONCRETE) = 0.5
• MINIMUM SLIDING FACTOR OF SAFETY = 1.5
• WALL SLIDING RESTRAINT REQUIRED
• MINIMUM OVERTURNING FACTOR OF SAFETY = 2.0
• MIN. ALLOWABLE SUBGRADE BEARING CAPACITY = 2000 PSF
• VERTICAL WALL LOAD FOR SLABS BEARING ON WALL OR
PUSH-OFFS = 1000 LBS./FT.
• NOT DESIGNED TO SUPPORT BUILDINGS OR ROOFS

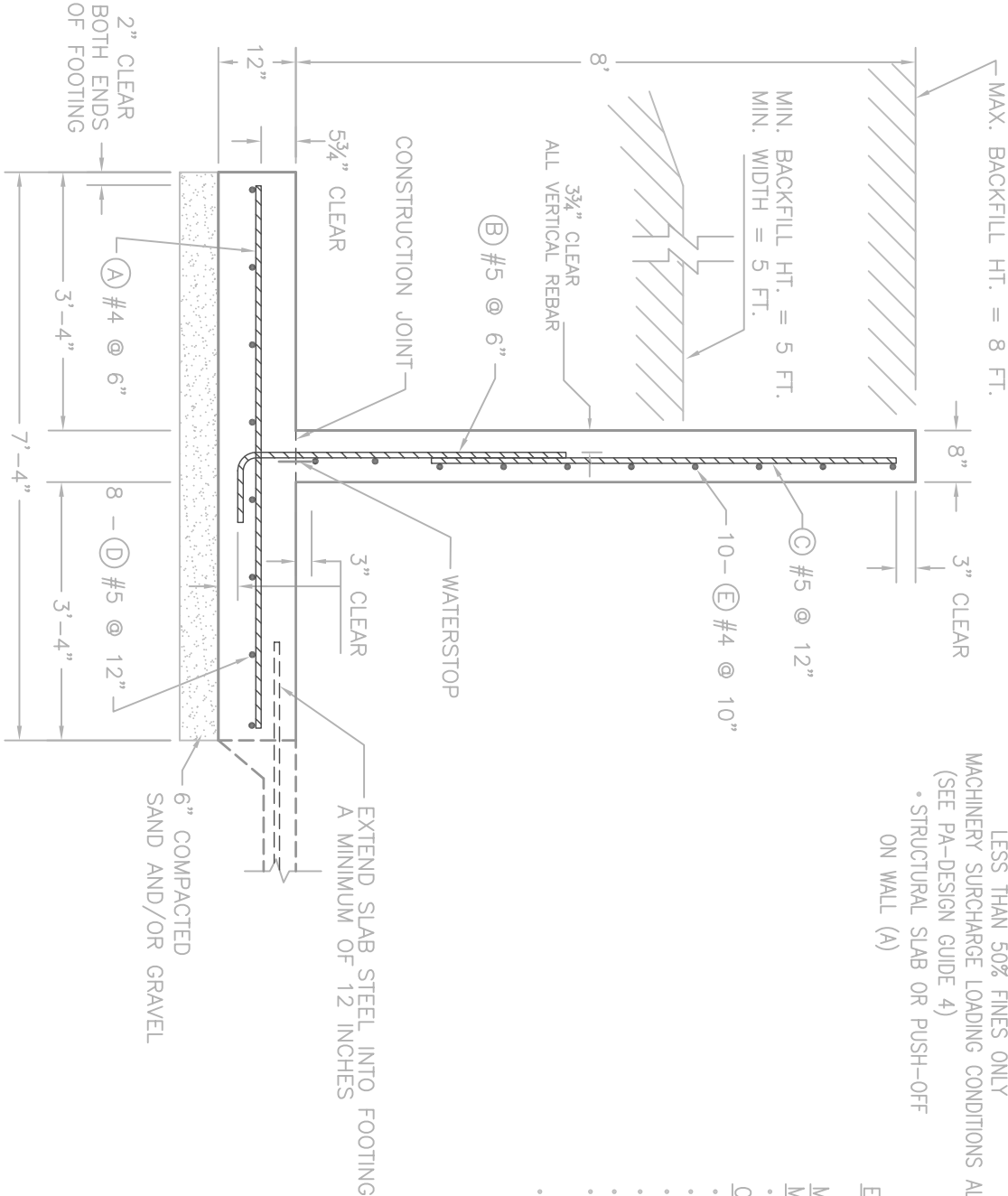
STEEL DETAILS

BAR SIZE	BEND DIAMETER (D) INCHES	SPLICE LENGTH INCHES (MIN.)*
#4	3	16
#5	3-3/4	20

* IF TWO BARS OF DIFFERENT DIAMETER ARE
SPLICED, USE THE LONGER SPLICE LENGTH.



TYPE 2 BAR



WALL SECTION

CONSTRUCTION JOINT

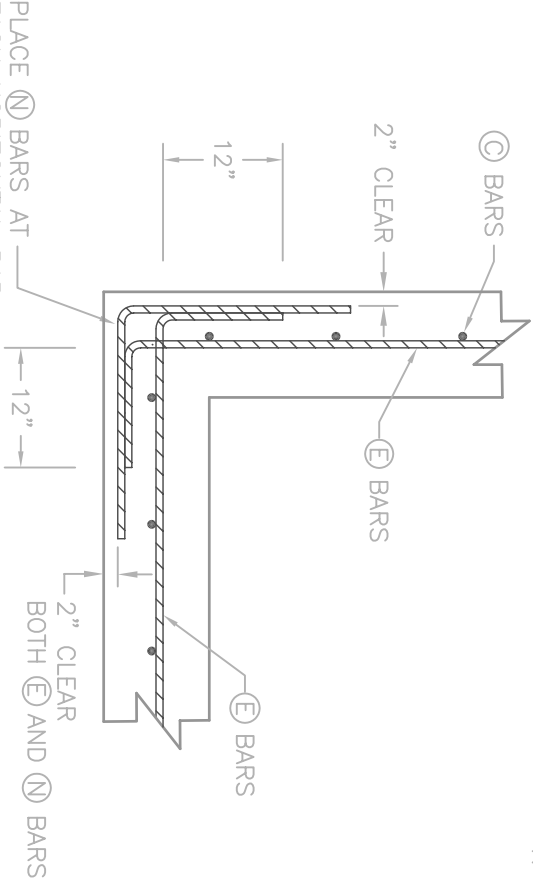
LIQUID-TIGHT JOINT --- YES --- NO

LIQUID-TIGHT JOINT OPTIONS

- 1) NON-METALIC WATERSTOP (PVC)
- 2) HYDROPHILIC WATERSTOP

CORNER NOTES

1. PLACE FIRST VERTICAL BAR AT WALL CORNER OR NO FURTHER THAN ONE-HALF BAR SPACING FROM THE INSIDE CORNER.
2. HOOK CAN BE SEPARATE FROM (E) BARS, PROVIDED THAT MINIMUM LAP SPLICE OF 16" FOR #4 BARS IS MET.
3. SEE WALL SECTION FOR EXACT LOCATIONS OF (C) AND (E) BARS.



PLACE (N) BARS AT _____
EACH HORIZONTAL BAR
LOCATION IN TOP 4' OF
WALL ONLY.
(5 (N) BARS TOTAL PER
CORNER)

CORNER BAR SCHEMATIC
PLAN VIEW - TOP 4 FEET
OF WALL SHOWN

THIS STANDARDIZED DESIGN MUST BE ADAPTED TO THE SPECIFIC SITE. IT WAS DEVELOPED IN COOPERATION WITH THE WISCONSIN DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION. THE DESIGN FOLDER IS FILED AT THE NRCS STATE OFFICE, 8030 EXCELSIOR DRIVE, MADISON, WISCONSIN 53717-2906



_____ COUNTY, PENNSYLVANIA

8' HIGH, 8" T-WALL, (BACKFILL 5-8 FT., <50% FINES)

MACHINERY ALLOWED STRUCTURAL SLAB ONLY

Date
06/24/05

Designed _____
Drawn TJA
Checked _____
Approved by _____

File No.
PA-028B

Drawing No.

PA-028B

(ADAPTED FROM WI-582, APRIL 2005)